



C-1017

Section 2.2 Capital Budget Grant Request Form Watershed Plan Implementation and Flow Achievement

Project Title: Wenatchee Heights Settling Pond Rehabilitation Project

[If your Watershed Plan Implementation and Flow Achievement Request is related to or part of a Operational Project Funding Request for 2009-11 please cross-reference the name of that project in parenthesis above]

County: Chelan

WRIA: 40A

If more space is needed attach additional sheets

1. Applicant Information		
Applicant name Wenatchee Heights Reclamation District	Phone no. 509-663-5488	Fax no. 509-663-5488
Address 330 E. Bohart Rd.		
City Wenatchee	State WA	Zip code 98801
Email address WHRDmanager@nwi.net		
Water right holder name (If applicable and if other than applicant) N/A	Phone Number ()	Fax Number ()
Mailing address		
City	State	Zip code

2. Project Location
Project name Wenatchee Heights Settling Pond Rehabilitation Project
Project location Approximately 3.7 miles up Stemilt Loop Rd from the turn off from Stemilt Cr Rd in the Wenatchee Heights area just south of the city of Wenatchee, Wa.

Stream reach mile or location

The settling pond (equalization pond) is not located on a stream.

3. Project Type and Description

(Check all that apply)

Conservation and/or infrastructure improvement
(pumps and pipes)

X

Water storage feasibility study

☐

Water exchange or water right acquisition

☐

Please describe your project in detail

Currently the Wenatchee Heights Reclamation District's equalization pond has only a partial liner, has lost at least 2 ac/ft of holding capacity due to sediment deposits, has no remote monitoring, and uses a rudimentary measuring system for in-flow measuring only. The goal of this project would be to remove excess sediment within the pond in order to increase capacity and line the entire pond. Lining would save approximately 38 ac/ft of water per year which is currently lost to seepage. An automated monitoring and flow measuring system would also be installed to maximize the efficiency of the pond.

Use this box to make any other comments regarding the project and water rights involved

Increasing water use efficiency and improving the management of water are the top two principle recommendation in the WRIA 40A Watershed Management Plan. The Wenatchee Heights Reclamation District (WHRD) has identified the rehabilitation of their settling pond as a top priority project that addresses the both recommendations. Under current conditions the pond has only a partial liner, has lost at least 2 ac/ft of holding capacity due to silt deposits, has no remote monitoring, and uses a rudimentary measuring system for in-flow only. These conditions allow for inefficient storage and management of the water. According the WRIA 40A Multi-Purpose Water Storage Assessment (Table 9) approximately 38 ac/ft of water is lost to seepage in the settling pond (See enclosed WRIA 40A Watershed Plan).

Describe the project by task (statement of work)

Task 1: Engineering, site survey, and design

Task 2: Construction – removal of silt from pond, line equalization pond.

Task 3: Installation of measuring devices

4. Project Budget

Project Budget

\$225,000

Total budget by project task or by expenditure

Task 1: \$50,000

Task 2: \$150,000

Task 3: \$25,000

5. Funding Source Information

Total project amount expected to be provided by sources other than this program (dollar total and percent of project budget)

Identify sources and type of funding other than through this program grant. Include expected dates of participation. Include as an attachment; letters of commitment, offer letters, application approvals, etc.

Source and type of funding: 10 year loan

Amount: Up to \$50,000

Status: Pending project approval

Dates of participation: Pending project approval

NOTE: The Wenatchee Heights Reclamation District has in the past and are currently working with Ray Newkirk and the Washington State Department of Ecology under ref 38 funding utilizing the 60% 0 interest Loan, 30% Grant, and 10% self funded. If similar funding is available under this program the board of directors is favorable toward this style of funding.

Source and type of funding:

Amount:

Status:

Dates of participation:

Source and type of funding:

Amount:

Status:

Dates of participation:

Source and type of funding:

Amount:

Status:

Dates of participation:

Source and type of funding:

Amount:

Status:

Dates of participation:

6. Instream Flow and other Instream Habitat Benefits

A. Water Right Information - Attach Water Right documents

(You may skip this section if this application is for Storage Feasibility Study funding)

Water right holder's name (if other than applicant) <i>See attached Comprehensive Water Conservation Plan Ch3.</i>	Phone no: ()	Fax no: ()
Address		
City	State	Zip code
Complete legal description of the property attached to this water right:		
Water right number: <i>See Table 3.2 of attached Comprehensive Water Conservation Plan Ch3.</i>		
Parcel number associated with this water right: 212010000000		
Do you own the property proposed for this project? If not, please explain: WA Dept of Natural Resources owns property. Easement in place for Equalization Pond.		
If the grant applicant is not the water right holder, please explain the reason:		
Water source (Stream name). Orr, Middle and Little Stemilt Creeks. All tributaries of Stemilt Creek. <i>See page 3-1 of attached Comprehensive Water Conservation Plan Ch3.</i>		

B. Water Usage

Has water been put to beneficial use in the past five years?

Yes ☒ No ☐ I don't know ☐

Describe that use in terms of the specific beneficial use during that period:

Irrigation of orchard crops and other agricultural use.
See attached Comprehensive Water Conservation Plan Ch3.
See Table 3.1 of Comp Plan for 5 Year Flow History

(Please attach any available documents that verify that use during the last five years. Include aerial photographs, power company records, flow meter records, crop type records, NRCS documentation or FSA records)

Has beneficial use of this water ceased for a period of five or more years during any period since 1967?
Yes ☐ No ☒ **See Table 3.1 of Comp Plan for 5 Year Flow History**

Please describe the beneficial use for the water quantified under the water right discussed above. Describe the following: purpose (examples: domestic, irrigation, municipal); system type; if irrigation, describe crop type. **Purpose: Irrigation, System: Gravity, Crop: Cherry / Apple / Pear and other agricultural uses.**

Quantify as nearly as possible current water use:

Instantaneous rate (QI) of use: 23 CFS

Annual rate (QA) of use 1962 ACRE- FEET

Historic beneficial use quantity of the water right (highest of the last 5 years/ irrigation seasons in instantaneous and annual quantities)

23 CFS 1962 ACRE-FEET

If irrigation, how many acres are irrigated under this water right? **Approximately 1,500 acres total. 743.27 acres in district, estimated 700 acres out of district boundaries.**

Are there other water rights associated with this specific water right? No

In order to process this pre-application ecology requires the following information (include for the previous five years; please attach copies of all documents and maps)

- ◆ Power data (contact local power utility for pump records, etc.) N/A Gravity System.
- ◆ Historical crop type data (contact local FSA office)
- ◆ Flow meter records (contact local power utility)
- ◆ Aerial photos (contact local FSA office)

C. Estimated Total Water Savings

Infrastructure projects: Estimate the water to be conserved through this project. Provide engineering or technical analysis to support this estimate. Answered the months by measured visible seepage.

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOT
QA (ACRE-FEET)				3.2	6.4	11.3	11.3	11.3	6.4	6.4			45
QI (CFS)				.004	.009	.016	.016	.016	.009	.009			.063

D. Additional Instream Benefits

Describe other instream benefits envisioned as a result of funding this project:

Less water to be diverted and a more efficient use of diverted waters. Implementation of a liner will create a more reliable and safe dam structure by preventing saturation of the structure. Telemetry system will eliminate unnecessary travel to the site numerous times a day for in person visits to check the level, in flow, and out flow statuses. Telemetry will also provide faster response to changes in these statuses by allowing O&M personnel to know if a change in the desired flow has occurred above or below the settling pond (ie. tampering of diversion boxes or loss of siphon at a reservoir above the pond, or a break in a main line below the setting pond). Currently an uneventful visit to the pond to merely check the status is an 8 mile round trip from the district office and takes a half an hour.

7. Resources currently committed to ensure long-term performance of the proposed project (operation and maintenance).

Who is responsible for long-term operation and maintenance of the project?
Wenatchee Heights Reclamation District

Have operation and maintenance costs been identified? Yes ☐ No ☐

If yes, please describe:

Summarize these costs on an annual basis below:
O&M costs should be greatly reduced in fuel and lost man hours by the implementation and installation of devices.

Are measurement devices other than diversion source meters necessary to monitor compliance with the project intent or plan? Yes ☐ No ☒

If yes, please describe:

Does a water measurement device exist on the source and downstream of the proposed project?
☐ yes ☒ no

If no, will a water measurement device be installed as part of this project? Yes ☒ No ☐
If yes, describe location and operating entity: Located at the site on the inflow and out flow. It will be operated by the WHRD.

If yes, provide the river mile:

What is the nearest stream gage downstream of the proposed project? Source name

A DOE telemetered stream gage exists on Stemilt Creek near the mouth. ID# 40B060

<https://fortress.wa.gov/ecy/wrx/wrx/flows/station.asp?sta=40B060>

The installation of this stream gage was an early implementation action recommended by the WRIA 40A Watershed Plan.

River mile : 1

9. Signatures (send this sheet electronically and by original signature in surface mail)

I certify that the information above is true and accurate to the best of my knowledge.

I understand that in order to process my application, I am hereby granting staff from the Department of Ecology access to the above site(s) for inspection and monitoring purposes.

If assisted in the preparation of the above application, I understand that all responsibility for the accuracy of the information rests with me.

I also understand that I may rescind this application at any time prior to signing the Agreement with no other obligations or requirements.

James W. Wiggin 11/06/08
(Applicant/ Grant Recipient) *President* (Date)
Wenatchee Heights Reclamation District

Same James W. Wiggin 11/06/08
(Water Right Holder) (Date)

Same James W. Wiggin 11/06/08
(Land Owner(s) of Existing Place of Use) (Date)

For More Information Contact:

Dave Burdick

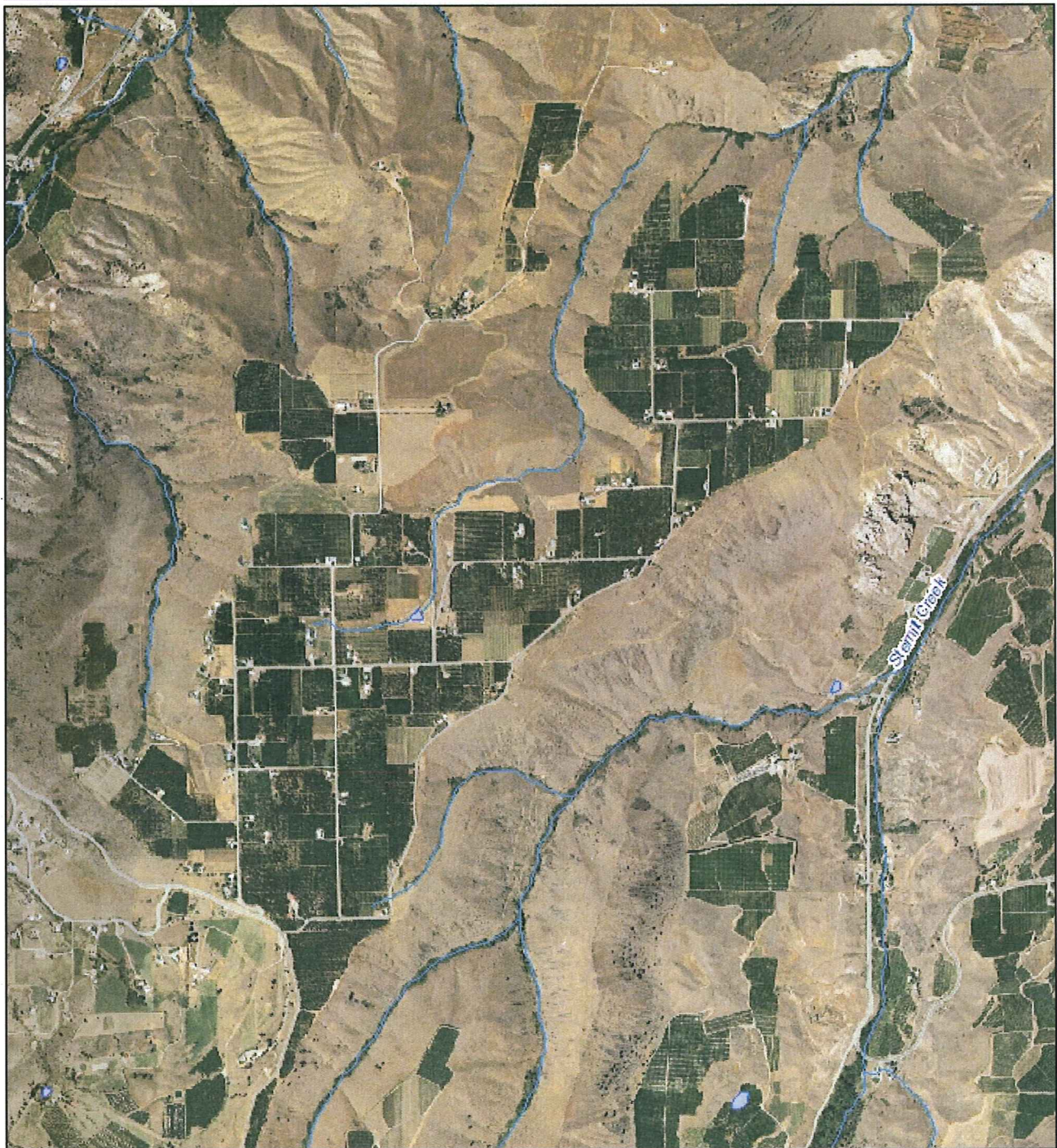
Voice: (360) 407-6094

Email: dbur461@ecy.wa.gov

Web:

<http://www.ecy.wa.gov/watershed/Index.html>

Wenatchee Heights Reclamation District Service Area 2006



Locator Map



0 850 1,700 3,400 5,100 Feet



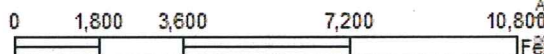
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Wenatchee Hieghts Reclamation District (WHRD) Equalization Pond Project Location Map



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Wenatchee Heights Reclamation District (WHRD) Equalization Pond Project Location Map



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Wenatchee Heights Reclamation District Service Area 1988



Locator Map

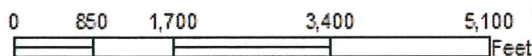
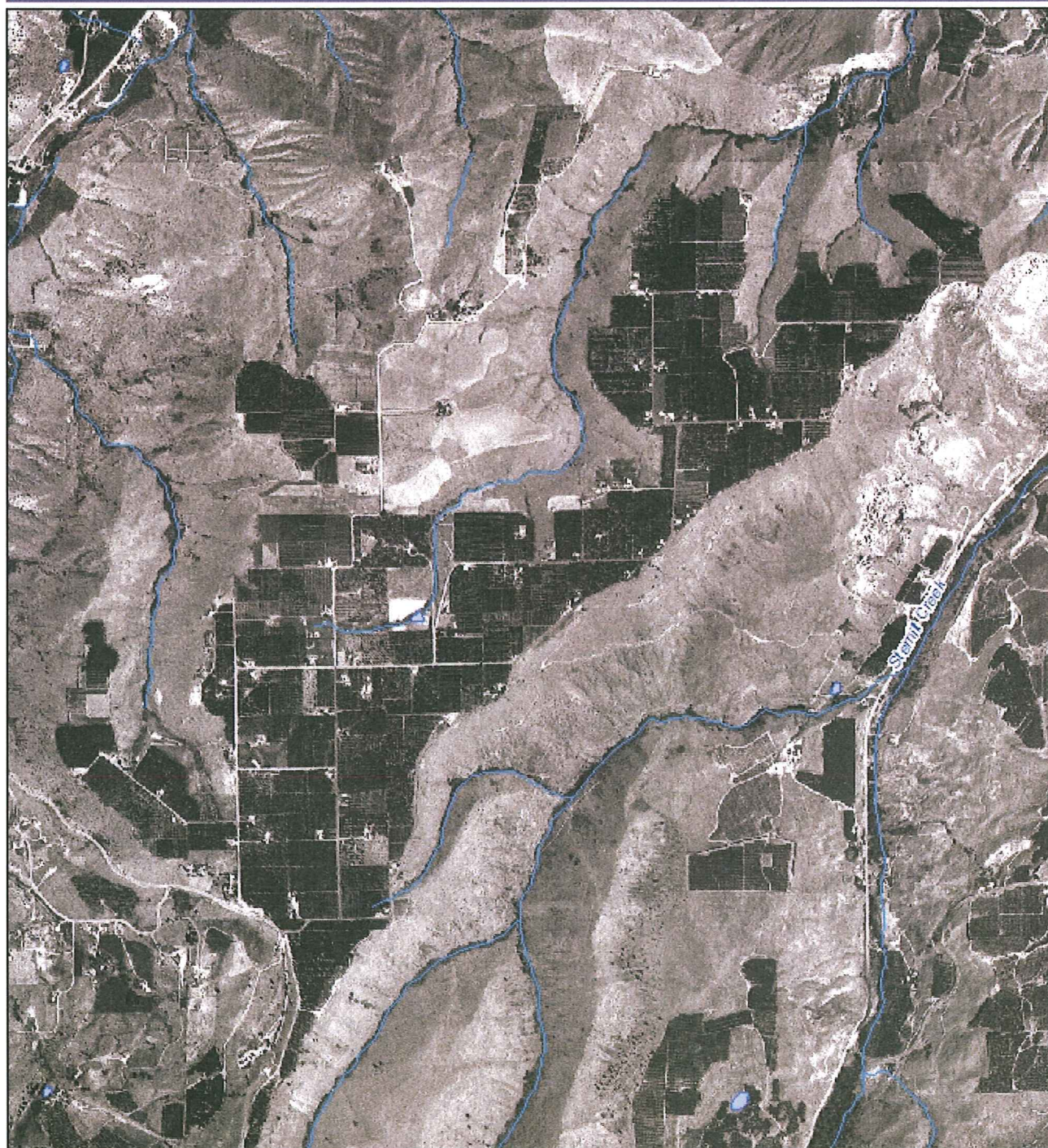


0 850 1,700 3,400 5,100 Feet



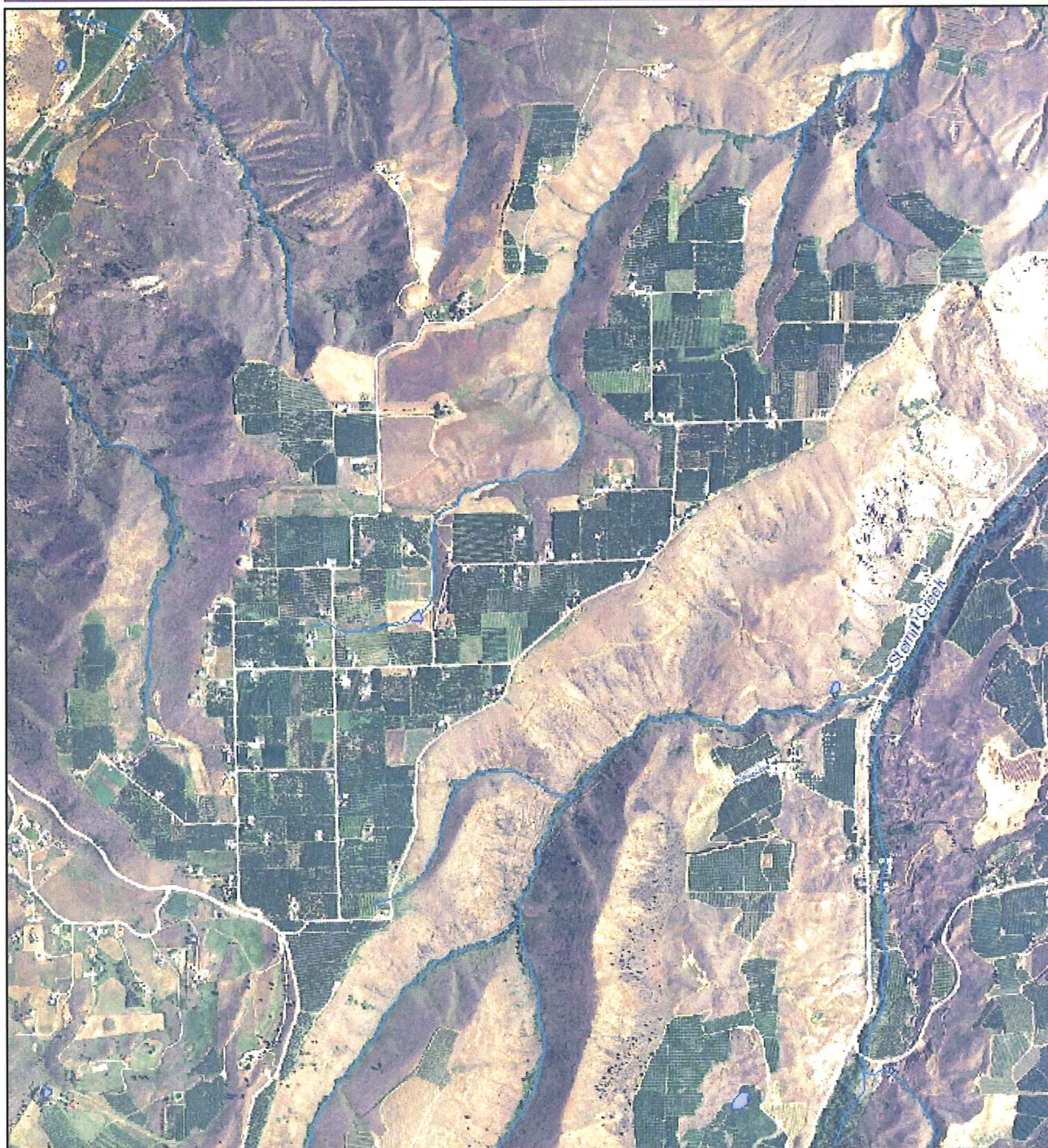
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Wenatchee Heights Reclamation District Service Area 1998



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Wenatchee Heights Reclamation District Service Area 2005



Locator Map



0 850 1,700 3,400 5,100 Feet



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Chelan County Natural Resource Department

316 Washington Street, Suite 401, Wenatchee, WA 98801

Phone (509) 667-6640 Fax (509) 667-6527

Dave,

Enclosed is the grant application for the Wenatchee Heights Settling Pond Rehabilitation Project. You should have also received electronic copies of this material. Please contact me if you have any questions. Thank you for your time and consideration.

Lee P. Duncan
Natural Resource Specialist

Wenatchee Heights Reclamation District

330 E. Bohart Rd. Wenatchee, WA 98801
(509) 663-5488
whrd@nwi.net

To: Washington State Department of Ecology

RE: Letter of financial intent for the Wenatchee Heights Settling Pond
Rehabilitation Project

The Wenatchee Height Settling Pond Rehabilitation Project will be of great benefit to our reclamation district water users in matter of water efficiency, improved use of man power, and reduction in fossil fuel use. It is the intent of the Wenatchee Heights Reclamation District Board of Directors to commit financially to this project up to the amount of \$50,000.

On behalf of the Board of directors

Sincerely,



James W. Wiggs
President
Wenatchee Heights Reclamation District